

TARRYTOWN-ON-HUDSON

One Depot Plaza, Tarrytown, New York 10591-3199

Mayor DREW FIXELL Deputy Mayor THOMAS T. BASHER

Trustees
THOMAS BUTLER
ROBERT HOYT
MARY McGEE
REBECCA McGOVERN
DOUGLAS ZOLLO

VILLAGE ADMINISTRATOR 914-631-1885 VILLAGE TREASURER 914-631-7873

VILLAGE CLERK 914-631-1652 VILLAGE ENGINEER

914-631-3668 DEPT. OF PUBLIC WORKS 914-631-0356

FAX NO. 914-631-1571

January 28, 2014

Mr. Zaw Thein
Assistant Engineer
Bureau of Environmental Quality
Westchester County Department of Health
145 Huguenot Street, 8th Floor
New Rochelle, NY 10801



RE:

Lead and Copper Rule Compliance Report – 2013

Village of Tarrytovn, New York

Dear Mr. Thein:

Attached please find laboratory results and summary tables for the lead and copper samples taken for the year 2013 by the Village of Tarrytown in accordance with the New York State sanitary code subpart 5-1.

As you are aware, samples were collected at thirty (30) locations during the months of June and August of 2013, and were analyzed for lead and copper by EnviroTest Laboratories, Inc. Accordingly, enclosed please find the following documents:

- 1. Signed Lead and Copper Rule Monitoring Report
- 2. 90th Percentile Tables for Lead and Copper
- 3. Lead and Copper Laboratory Test Results for the 30 site locations
- 4. Lead and Copper Results for Confirmation Sample at
- 5. Past Test Results Table for
- 6. Biweekly Water Quality Parameters (WQP) at the point of Entry

The attached table shows complete compliance with the copper results, while 4 of the 30 samples exceed compliance limit for lead. The failure in lead compliance does not make sense based on past results and distribution system improvements; as such a confirmation sample was obtained at

Uses Recycled Paper

Exemption 6

Please be advised that Tarrytown has undertaken several water improvement projects in the last three years including replacement of approximately 5,000 linear feet water mains, cleaning and lining of approximately 15,000 linear feet of existing water mains, installation of new service connections, valves and hydrants. There has not been any change in the corrosion inhibitor treatment at the plant. We have compiled the past test results for the site location for your review.

Based on the above, we believe that the failure during the first sample collection at the site was an error, and based on the confirmation sample result, as described above, the Village meets the lead and copper compliance for the 2013 monitoring period. We request the Department to allow the Village to continue their lead and copper monitoring under the reduced schedule.

Should you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

Michael J. McGarvey, P.E. Tarrytown Village Engineer

MJM:dsb Enclosure

cc: Michael Blau, Village Administrator
Stephen Cowles, Shaft #10 Pump Station, Tarrytown (w/ attachments)
Arshad Jalil, P.E., Principal, Professional Consulting, LLC (w/ attachments)
Howard Wessells, Superintendent of Public Works, Tarrytown (w/ attachments)



Octagon 10 Office Center 1719 Route 10, Suite 314 Parsippany, New Jersey 07054

Professional Consulting, Ilc.

Phone: 973.683.0044 Fax: 973.683.0077

January 15, 2014

Michael J. McGarvey, P.E., Village Engineer Village of Tarrytown One Depot Plaza Tarrytown, NY 10591

RE:

Lead & Copper Rule Compliance Report - 2013

Village of Tarrytown, NY

PCI No. 156-1

Dear Mike:

As per our meeting of January 15, 2014, enclosed please find the lead and copper sampling test results for the year-2013 for your review and submission to the Health Department. As you are aware the lead samples results did not meet compliance, and exceeded the action level at 4 of the 30 sampling sites. We understand that the failure at the sample was obtained and retested at this site which shows compliance.

Based on the above description, we have prepared the following documents for your review and submission to the Westchester County Department of Health (WCDOH).

- Sample Letter of Transmittal (to be transferred to Village letterhead and signed by the Village engineer)
- 2. Signed Lead and Copper Rule Monitoring Report
- 3. 90th Percentile Tables for Lead and Copper-2013
- 4. Lead and Copper Laboratory Test Results for 30 sampling sites
- Confirmation Sample test results for
- 6. Historic sample test results for
- 7. Biweekly Water Quality Parameters (WQP) at the point of Entry

Should you have any questions, please do not hesitate to contact us.

Very truly yours,

PROFESSIONAL CONSULTING, LLC.

Arshad Jalil, P.E., BCEE

Project Manager

Enclosure

C: Howard Wessells, Superintendent DPW-Tarrytown NY Steve Cowles. Chief Operator-Shaft 10 PS- Tarrytown NY

F:\Home\documents\clients\Tarrytown\156-1- Lead & Copper\correspondance\2014.01.15-MM 2013 lead and copper transmittal.doc

2013 LEAD AND COPPER RULE MONITORING REPORT

System s Name:	Shaft #10 P.S. Dept. of Public Works	Type: <u>x</u> CWS	NTNCWS
Address:		50, _X10, 3,3	
Telephone #: Fax #	914-631-0456 914-631-2258		
Federal ID#:	00003461		
Contact Person:	Steve Cowles, Chief Oper	rator, Type IB	
THE RESULTS OF I ATTACHED TO TH	LEAD AND COPPER TAP IS DOCUMENT	WATER SAMPLES	MUST BE
# of Samples required	l: <u>30</u> # of	Samples submitted:	30
90 th Percentile Level:	Lead <u>16.1</u> ug/l	Copper 295 ug/	/1
TARGETING CRITE	ERIA		
and lead solde	actures with copper pipes r installed after 1982 or lead rvice lines (Tier 1)	d pipes	21
with lead sold and/or lead ser (Only applical	ctures with copper pipes er installed after 1982 or lea rvice lines (Tier 1) ble if multi-family structures ne structures served by the w	s comprise more	N/A
	ing copper pipes er installed after 1982 or lea rvice lines (Tier 2)	d pipes	N/A
	copper pipes and lead solde e 1983 (Tier 3)	r	9
		Total:	30

of WQP entry point samples actually collected and submitted

Signature

Explanation of Tier 2 and/or Tier 3 sites are used

Chief Operator Type 1B

Title

I certify that:

- Each first draw tap sample for lead and copper is one liter in volume and has stood motionless in the plumbing system of each sampling site for at least six hours.
- Each first draw sample collected from a single-family residence has been collected from the cold water kitchen tap or bathroom sink tap.
- Each first draw sample collected from a non-residential building has been collected at an interior tap from which water is typically drawn for consumption.
- Each first draw sample collected during an annual or tri-annual monitoring period has been collected in the months of June, July, August or September.
- Each resident who volunteered to collect tap water samples from his/her home has been properly instructed by (insert water system's name) <u>Tarrytown Water</u>
 <u>Department</u> in the proper methods for collecting lead and copper samples. I do not challenge the accuracy of these sampling results. Enclosed is a copy of the material distributed to residents explaining the proper collection methods, and a list of the results. Sampling was performed by the owners of house/buildings used in the reports.

Steplan of Coroler Signature

Stephen G. Cowles
Name

WTP Chief Operator 1B Title

Date

Village of Tarrytown

Lead

First Draw Sample Percentile Results 2013

ample#	Location	Sample Date	Lead (ug/L)
1		06/18/13	<loq< td=""></loq<>
2		06/19/13	<loq< td=""></loq<>
3		06/19/13	<loq< td=""></loq<>
4		06/18/13	<loq< td=""></loq<>
5		06/17/13	<loq< td=""></loq<>
6		06/19/13	<loq< td=""></loq<>
7		06/19/13	<loq< td=""></loq<>
3		06/20/13	<loq< td=""></loq<>
9		06/17/13	<loq< td=""></loq<>
10		06/19/13	<loq< td=""></loq<>
11		08/01/13	<loq< td=""></loq<>
12		06/21/13	<loq< td=""></loq<>
13		06/17/13	1.03
4		06/19/13	1.29
5		08/09/13	1.41
3		06/19/13	1.51
7		06/19/13	1.53
8		07/23/13	1.58
9		06/19/13	2.01
20		06/19/13	2.82
21		06/17/13	3.28
2		06/19/13	4.03
23		07/23/13	4.6
24-25		06/17/13	5.48
5 26		06/19/13	5.63
8- 27		06/18/13	12.3
70		06/19/13	16.1
8 29		06/20/13	27.3
8-30		08/01/13	42.0
031		06/19/13	59.4
31			

Regulatory Action Limits

Lead 15 micrograms/Liter

16.1 micrograms/ Liter 90th Percentile

31 sample × 90% > 27.94

27 th. sample 12.3 } 16.1 - 12.3 = 3.8 × 6.9

28 th. sample 16.1 } = 3.42

3.42 + 12.3 = (15.72)

Village of Tarrytown Copper First Draw Sample Percentile Results 2013

ample # Loca	tion Sample Date	Copper (ug/L)
1	08/09/13	36.5
2	06/17/13	46.1
3	06/19/13	46.6
4	06/19/13	67.1
5	06/19/13	68.5
6	06/19/13	71.5
7	06/17/13	127.0
8	06/19/13	132.0
9	06/19/13	136.0
10	06/19/13	137.0
11	06/19/13	160.0
12	06/19/13	174.0
13	07/23/13	186.0
14	06/19/13	187.0
15	06/18/13	199.0
16	08/01/13	205.0
17	06/18/13	217.0
18	06/17/13	232.0
9	08/01/13	233.0
20	06/19/13	236.0
11	06/17/13	246.0
22	06/19/13	253.0
23	06/19/13	255.0
24	06/20/13	257.0
25	07/23/13	266.0
26	06/18/13	269.0
27 4	06/21/13	295.0
28 24	06/17/13	299.0
29, 30	06/20/13	377.0
30 31	06/19/13	408.0
31		100.0

Regulatory Action Limits

Copper

. 1300 micrograms/Liter

295 micrograms/ Liter 90th Percentile $\left[(295 - 276) * 0.9 \right] + 276 = 293.1$

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